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(54) Title: **AMYLOID FORMATION**

(57) Abstract: A protein must fold into a specific conformation in order to carry out its intended function. Failure to fold correctly may lead to self-association and aggregation, and formation of a highly ordered and insoluble form of protein - the amyloid fibril. Amyloid fibrils are associated with a growing number of human diseases and are thus of significant medical interest. Current interest in amyloid has also grown within the wider protein science research community, based on the discovery that these unusual structures are likely to represent a generic form of all proteins. The invention provides amyloid fibrils, for novel biomaterials development, from a heterogeneous protein mixture. In particular it provides a protein derived as a secondary product from an industrial production process (wheat gluten) to make amyloid fibrils for novel biomaterials.

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